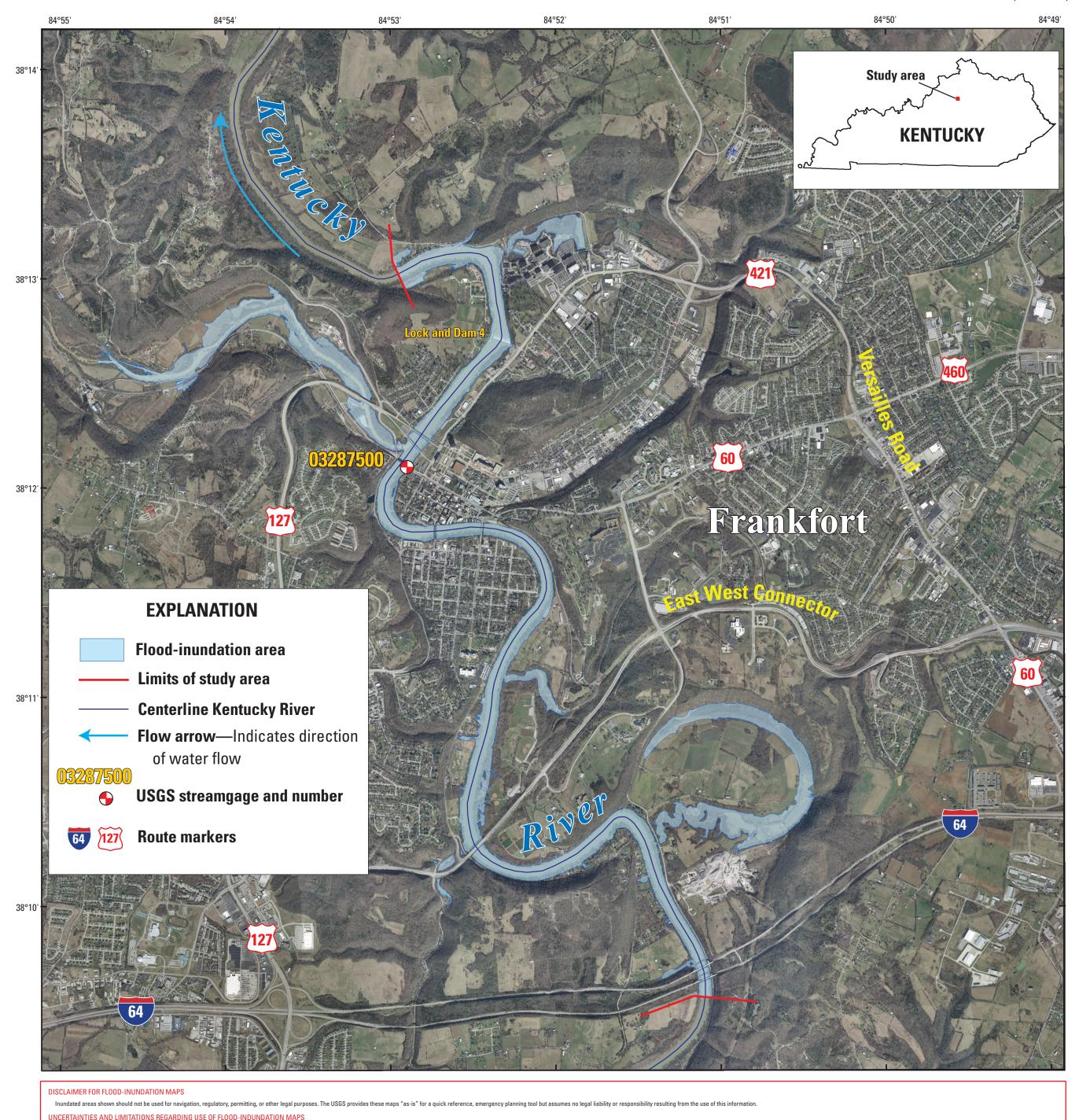


U.S. Department of the Interior U.S. Geological Survey

Prepared in cooperation with the **City of Frankfort, Kentucky**

Scientific Investigations Map 3278 Sheet 3 of 26

Pamphlet accompanies map



flow, and using streamflows and hydrologic conditions anticipated at the USGS streamgase(s). The hydraulic model reflects the land-cover characteristics and any bridge, dam, levee, or other hydraulic structures existing as of June 2013. Unique meteorologic conditions in the water-surface elevations in the water-surface elevations in the water-surface elevations and introduction of precipitation in the water-surface elevations in the water-surface elevations and inundated day states and hydrologic conditions anticipated at the USGS streamgase(s). The hydraulic model reflects the land-cover characteristics and any bridge, dam, levee, or other hydraulic model reflects the land-cover characteristics and hydraulic model r maps will vary with the accuracy of the digital elevation model used to simulate the land surface. Additional uncertainties and limitations pertinent to this study.

If this series of flood-inundation maps will be used in conjuction with National Weather Service (NWS) river forecasts, the user should be aware of additional uncertainties that may be inherent or factored into NWS forecast models to estimate the quantity and timing of water flowing through selected stream reaches in the United States. These forecast models (1) estimate the amount of runoff generated by precipiation and snowmelt, (2) simulate the movement of floodwater as it procedes downstream, and (3) predict the flow and stage (and water-surface elevation) for the stream at a given location (AHPS forecast point) throughout the forecast period (every 6 hours and 3 to 5 days out in many locations). For more information on AHPS forecasts, please see: http://water.weather.gov/ahps/pcpn_and_river_forecasting.pdf.

Projection: Lambert Conformal Conic 1 KILOMETER State Plane Coordinate System, Kentucky, FIPS, 1600

Photography and Elevation Data Program, 2012 Suggested citation: Lant, J.G., 2013, Flood-inundation maps for a 6.5-mile reach of the Kentucky River at Frankfort, Kentucky:

North American Datum of 1983 (NAD83) Orthophotography from Kentucky Aerial

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Flood-inundation Map for Frankfort, Kentucky, **Corresponding to a Stage of 29.00 Feet and an Elevation** of 490.58 Feet (NAVD 88) at U.S. Geological Survey Streamgage Number 03287500, Kentucky River at Lock 4

NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)

Although the flood-inundation maps represent the boundaries of inundated area with a distinct line, some uncertainty is associated with these maps. The flood boundaries shown were estimated by steady-state hydraulic modeling, assuming unobstructed

Jeremiah Lant 2013

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